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(51) International Patent Classification ⁶ : A61K 31/505, 39/395, 31/385 // A61K 39/39, 39:505	A3	(11) International Publication Number: WO 99/59628 (43) International Publication Date: 25 November 1999 (25.11.99)
(21) International Application Number: PCT/US99/10750 (22) International Filing Date: 14 May 1999 (14.05.99) (30) Priority Data: 60/085,687 15 May 1998 (15.05.98) US (71) Applicant (for all designated States except US): APHTON CORPORATION [US/US]; Suite 14, 26 Harter Avenue, P.O. Box 1049, Woodland, CA 95776-1049 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): GEVAS, Philip, C. [-/US]; 881 Ocean Drive #23D, Key Biscayne, FL 33149 (US). GRIMES, Stephen [-/US]; 551 Rutgers Drive, Davis, CA 95616 (US). KARR, Stephen, L. [-/US]; 2265 Halsey Circle, Davis, CA 95616 (US). WATSON, Susan, A. [-/GB]; #5 Seatolla Close, Edwalton, Nottingham NG2 6RB (GB). MICHAELI, Dov [-/US]; 21 Marina Vista Avenue, Larkspur, CA 94939 (US). (74) Agents: DRIVAS, Dimitrios, T. et al.; White & Case LLP, Patent Dept., 1155 Avenue of the Americas, New York, NY 10036 (US).	(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> (88) Date of publication of the international search report: 13 January 2000 (13.01.00)	
(54) Title: COMBINATION THERAPY FOR THE TREATMENT OF TUMORS		
(57) Abstract <p>The present invention relates to a combination therapy method for treating gastrin-dependent tumors. The method comprises the immunization of a patient with an anti-gastrin (17) immunogenic composition in combination with the administration of chemotherapeutic agents such as 5-fluorouracil and leucovorin.</p>		

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 99/10750

A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 A61K31/505 A61K39/395 A61K31/385 //A61K39/39, A31K39:505

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 755 683 A (CENTOCOR INC) 29 January 1997 (1997-01-29) see esp. claims	1-11
Y	AJANI J A ET AL: "PHASE I AND II STUDIES OF THE COMBINATION OF RECOMBINANT HUMAN INTERFERON- AND 5-FLUOROURACIL IN PATIENTS WITH ADVANCED COLORECTAL CARCINOMA" JOURNAL OF BIOLOGICAL RESPONSE MODIFIERS, US, RAVEN PRESS. NEW YORK, vol. 8, no. 2, page 140-146 XP000032195 the whole document	1-11

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

18 November 1999

Date of mailing of the international search report

25/11/1999

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INTERNATIONAL SEARCH REPORT

International Application No

PO 99/10750

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WATSON S A ET AL: "ANTI-GASTRIN ANTIBODIES RAISED BY GASTRIMMUNE INHIBIT GROWTH OF THE HUMAN COLORECTAL TUMOUR AP5" INTERNATIONAL JOURNAL OF CANCER, US, NEW YORK, NY, vol. 61, no. 2, page 233-240 XP000654518 ISSN: 0020-7136 the whole document	1-11
A	EP 0 380 230 A (APHTON CORP) 1 August 1990 (1990-08-01) the whole document	
P, X	WATSON S. A. ET AL.,: "A comparison of an anti-gastrin antibody and cytotoxic drugs in the therapy of human gastric ascites in scid mice" INT. J. CANCER, vol. 81, - 12 April 1999 (1999-04-12) pages 248-254, XP000853851 the whole document	1-11

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 99/ 10750

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
Remark: Although claims 1-11 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
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3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

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4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

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- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 99/10750

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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